



The LCARA Patch



10 METER ROUNDTABLE
WEDNESDAY @ 20:30 HRS
28.450 MHz

www.lcara.org
<https://groups.io/g/lcarapatch>
<https://www.facebook.com/groups/LCARAofOhio/>

LCARA TWO METER NET
THURSDAY @ 19:00 HRS
147.210/R - PL 110.9



LCARA Board

President KB8BKE Ed Kopcak
Vice President KE8HJL Tom Revolinsky
Secretary KE8HJL Tom Revolinsky
Treasurer KB8BKE Ed Kopcak
Director-at-Large N8JKO Joe Koskovics

Patch Staff

Editor: KB8BKE
DX: AA8OY
History: KO8O
Sunshine: Vacant

Standing Committees

ARES/Public Service	Mike Goffos	WB8ZGH
Contest	Bob Liddy	K8BL
DX	Jim Pyle	AA8OY
Field Day Chair	Jim Pyle	AA8OY
History	Scott Farnham	KO8O
LCHS Liaison	Bob Mekinda	K8QXO
N8BC Trustee	Bob Liddy	K8BL
Planning	Tim WA8ZWO, Nate W1OLE	
Program Director	Joe Koskovics	N8JKO
Publicity	Bob Mekinda	K8QXO
Repeater	N8IJG - KB8BKE	
Sunshine	Open	

***Our next club Meeting: March 1st, 2023
On Zoom and in person at UH Tri-point Physician's Pavilion***

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Message from the President

Greetings fellow travelers,

Our next meeting is March 1st at the Tri-Point Physicians Pavilion. It will also be live via Zoom. We do not have a speaker scheduled.

March is upon us, and with it come ham fests and public service events. We will be kicking off our public service season this year with the "Spring Thaw 10 Miler" event on April 2nd. This is our first time working this event, which starts and finishes at Veteran's Park in Mentor and up thru Mentor Lagoons. A complete list of all our planned events with links to register to help is available on our website.

Also this month, "Severe Weather Awareness Week" is March 19-25, and the "Statewide Tornado Drill" is on the 22nd, from 09:50-10:00. Lake County will NOT be testing their sirens. Several Sky Warn groups will be conducting "check-in" nets during this annual drill.

Last but not least, Daylight Saving Time begins at 02:00 on March 12th.

Stay well and be safe.

'73

-Ed



Membership Meeting Minutes

Membership Meeting Minutes for February 1, 2023

Board Members Present:

KB8BKE – Ed Kopcak, President / Treasurer
KE8HJL – Tom Revolinsky, Secretary

Attendees:

Ed KB8BKE	Tom KE8HJL
Mike WB8ZGH	Bob W2THU
Bill N8IJG	Mike WB8ZGH
Dale KG6WGO	Nate W1OLE
Scott N8SY	Tim WA8ZWO
Larry WB8PHI	Joe N8JKO
Evan W8ISQ	Bob N8KBX
Dave	Bob K8QXO
Jim AA80Y	Neal NFIX
John KB8YJY	

Meeting Minutes:

- Meeting called to order by Ed (KB8BKE) at 7:39 p.m.
- This meeting took place in person at Tri – Point in Painesville Ohio

President – Ed (KB8BKE) mentioned:

- The motion to accept the minutes for the last meeting was accepted.

Speaker: Doug Friedt (N8FRJ) MARS Radio:

- Military Auxiliary Radio System is a group of citizen volunteers that supports the DOD in case of a disaster or cyber, impaired conditions.
- MARS is not in competition with Amateur Radio
- Daily Train – M110A to send encrypted digital and voice messages.
- Noble Skway – Canadian Communications Branch
- Mostly use NVIS antennas and use VOCAP as they typically communicate around 100 to 150 miles
- COMEX Exercise on 60 meters in February
- More Information: www.usarmymars.org
- You can reach Doug at dfriedt@twc.com

New Business:

- We are plan on moving our antennas from Breckenridge to Lake West. Once we get a cost estimate we will bring it the membership for a vote.
- We discussed the results of the Fund Raising Committee exploring possibility of a Hamfest in Lake County. They will bring the detailed summery to the membership at a future meeting. The thought is that we would not make a lot of money but it would increase our exposure to the community.

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- Bob mentioned that he can print out all the addresses of Ham's in each city in Lake County. There are 200 just in Mentor. A discussion was made on the most effective way to reach them.

Radio: Bill (N8IJG):

- Nothing reported

Secretary Report: Tom (KE8HJL)

- 1 member paid today
- 36 total members paid so far this year.

Treasurer Report: ED (KB8KBE):

- Treasury is in good shape
- We opened a 2nd checking account for funds received via Stripel.

Sunshine:

- None

DX Report: Jim (AA80Y)

-

Public Service: Mike (WB8ZGH)

- April 2 - Spring Thaw - 10 Miler Veterans Park (**New**)
- April 22 - NVIS Day @ LCHS
- May 7 - Drop Run 10 Miler - Chardon to Chardon

Historical Society: Bob (K8QXO):

- Closed for the month of January

ARRL Liaison: Bob (W2THU):

- Nothing to report

VE Testing: Don (WA8TWM)

- Nothing to report

Ohio Legislative Liaison: Bob (W2THU)

ARES: Joseph (N8JKO).

- Nothing to report

Nets: Ed (KB8BKE) will be taking over the 2m net thru April

Monday: 7:30 pm. – Lake County ARES Training Net – 147.210 (pl 110.9) – (b/u 147.255 – pl 110.9)

Wednesday: 8:30 pm. – Lake Co. ARA 10 Meter Round-Table Net – 28.450 MHz +/-

Thursday: 7:00 pm. – Lake Co. ARA 2 Meter Net – 147.210 (pl 110.9)

50/50 winner: \$44 Total – winner: Doug who donated his winnings to LCARA.

Meeting adjourned at: 8:45 p.m.

Tom (KE8HJL)

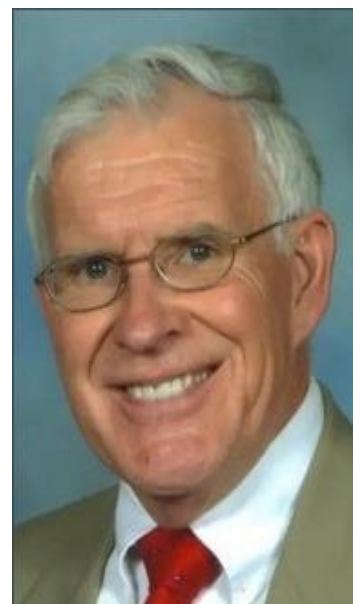


Sunshine Report:

Jon was a former member of LCARA.

R. Jon Yagoda - KB8IRT (SK)

Mr. Yagoda passed away Thursday, February 16, 2023 at his home. Born January 6, 1938 in Old Forge, PA, he has lived in Mentor for the past 33 years. He was an active member of Mentor United Methodist Church in Mentor, Community United Methodist Church in Jackson Heights, NY, First United Methodist Church in Taylor, PA and Mhoontown United Methodist Church in Cherokee, AL. He was very active in local organizations in the communities where he lived, and worked at the former Caterpillar, Inc., in Mentor before his retirement.



Backscatter for February 2023

by: *Scott Farnham KO8O*

LCARA Historian



BACKSCATTER

142 Years Ago: Born, Richard C Tolman, inventor of the electron. A physicist and chemist, he demonstrated that electrons are the charge-carrying particles in the flow of electricity, and measured its mass. During the Manhattan Project of WW II, he was the chief scientific adviser to Brig. General Leslie Groves, the head of military affairs overseeing the development of the atomic bomb.

46 Years Ago: The first Cray-1 supercomputer, Freon-cooled and costing 19 million dollars, was shipped to Los Alamos Laboratories, NM. It had peak performance of 133 megaflops and used the newest technology, integrated circuits and vector register technology. It looked like no other computer, being a cylinder 17 feet tall and 9 feet in diameter, weighing 30 tons and requiring its own electrical substation.

40 Years Ago: The FCC issues a NPRM to create a new codeless license class, stating “there are intelligent, disciplined persons who can make a valuable contribution to the Amateur Radio Service without such proficiency.” Still undecided is whether the name for the new class should be “Technician” or “Experimenter.”

Not just one, but two DXpeditions are on the air from rarely heard Heard Island. No excuses for missing this one. Jim Smith, leader of one of the DXpeditions is irritated by his lack of exclusivity, and promises “to set the record straight” at the upcoming Dayton Hamvention.

35 Years Ago: Special Event station N200BC plans are progressing well, with donations received of \$100 from the city of Mentor, \$50 from Antenna Specialists, and an amazing \$500 from the Lake County commissioners!

30 Years Ago: Beware the Ides of March! The FCC issues a NPRM ending certification of scanners capable of receiving the 800 MHz cellular phone band effective March 23rd.

Spark gap anyone? Tim, N8TLM reminds us that just walking across carpet can generate a static charge of 35,000 volts, and even picking up a plastic bag can create a 20,000 volt charge.

25 Years Ago: Tim, KQ8TC collects memories of the 1st LCARA Hamfest, held in 1979 at the National Guard Armory at the corner of Mentor Avenue and Fairgrounds. Admission was \$3.00, collected as cars pulled into the parking lot, resulting in traffic jams on Mentor Avenue. The Hamfest logo was a huge plywood fish, outlined with Christmas tree lights, created by Wayne, WB8ZWR, the first chairman. Upfront money for the Hamfest, around \$1500-\$2000 was put up by Wayne, and other Hamfest organizers. This was the only Hamfest held at the Armory, as the following year it moved to the Mentor High School, and two years after that, to the Madison High School.

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20 Years Ago: After 27 newsletters, Patch editor Ken passes the reins on to Grant, N0IXL.

ST0RY (S-T Zero R-Y) operates for three weeks from South Sudan. Other suffixes, apparently rejected, include DGY, LEN and OL, not to mention NED.

15 Years Ago: Mike, WB8ZGH reports the club's emergency trailer has been ordered "in accordance with discussions with the county.

Hamfest, DOA. At a very well attended Hamfest meeting, it is determined the income from a hamfest, potentially at the Lake County Fairgrounds, would be unlikely to exceed the costs.

10 Years Ago: LCARA goes to the dogs. The program at the February meeting Wil Rosch of the Big Creek Search Dog team gives a presentation with the help of his "best friend" Jordan.

5 Years Ago: An article in the *PATCH* by Dan Romanchik KB6NU, tries to explain electron flow vs the concept of current flow. One goes from negative to positive, the other goes positive to negative. See the "142 Years Ago" item above to determine which is correct.

It is reported that two atoms were walking along, and one of them says:

"Oh no! I think I lost an electron."

-- "Are you sure?"

"Yes, I'm positive."

DX Alert

by: Jim Pyle AA8OY



March 2023 DX Alert

4W –Timor-Leste - Satoshi, JH2EUV is QRV as 4W/JH2EUV until March 3. Activity is on 40 to 10 meters using FT8.

J5 - Guinea – Bissau - Livio, IZ3BUR is QRV as J52EC. Activity is on 15 and 10 meters using mostly SSB. His length of stay is unknown.

V6 – Micronesia - V63JB is QRV from Ulithi Atoll, IOTA OC-078. Activity is currently on 30 meters using FT8 but hopes to expand to 20 meters, and use SSB.

XZ – Myanmar - Akio, JE2QIZ is QRV as XZ2B from Yangon. He is active in his spare time on 15, 12, 10, and 6 meters using CW.

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VU4 – Andaman Islands - VU3HPF (M0XUU), Gopan, and VU2JXN, Ram, have announced their plans to operate from Andaman Islands" (AS-001) taking place from March 2-5 as VU4T. They expect to be QRV on 40 through 10 meters running 200 watts mostly on CW and possibly on SSB. They do not have plans to be on FT4 or FT8.

VK9/N Norfolk Island - VK3QB updates on VK9NT planned for March 17-31. It is on schedule and final preparations are being made.

3B6/7 - Agalega & St. Brandon Islands - OM5ZW is leading the 3B7M expedition to St. Brandon. Approvals have been obtained. It will be until March 5. The group plans to be on CW, SSB, RTTY, FT8 and FT4, 160-6M and QO-100 satellite, with 3-4 stations.

PJ7 – Saint Maarten - PJ7AA by AA9A, Tom, will be March 3 to April 1, likely CW mostly, plus SSB and FT8, 80-10.

T30 – Western Kiribati - The Rebel DX Group is planning a March 2023 T30TT operation from Tarawa. Plans are for SSB and CW.

Happy hunting!

Jim, AA8OY

Thanks to ARRL DX and Weekly DX

Upcoming Contests: (from the OSJ/WA7BNM)

Mar. 1	VHF-UHF FT8 Activity	www.ft8activity.eu/index.php/en
Mar. 1	UKEICC 80m Contests SSB	https://ukeicc.com/80m-rules.php
Mar. 4-5	ARRL SSB DX Contest	www.arrl.org/arrl-dx
Mar. 4-12	Novice Rig Round-Up	www.novicerigroundup.org
Mar. 5	UBA Spring Contest 80m CW	http://bit.ly/2KKA9tb9
Mar. 6	RSGB 80m Club Championship, Data	bit.ly/3TxCrxl
Mar. 7	AGCW YL-CW QSO Party	www.agcw.de/contest/yl-cw-party
Mar. 8	VHF-UHF FT8 Activity	www.ft8activity.eu/index.php/en
Mar. 11	YB DX RTTY Contest	https://rtty.ybdxcontest.com
Mar. 11	QRP ARCI Spring Thaw SSB Sprint	www.qrpcontest.com/qrparki_thaw
Mar. 11-12	EA PSK63 Contest	https://tinyurl.com/5awufshf
Mar. 11-12	Idaho QSO Party	www.pocatelloarc.org/idahoqsoparty
Mar. 11-12	Oklahoma QSO Party	http://k5cm.com/okqp.htm
Mar. 11-12	North American RTTY Sprint	http://ncjweb.com/north-american-sprint
Mar. 11-12	RSGB Commonwealth CW Contest	bit.ly/3TxCrxl
Mar. 11-12	Stew Perry Topband Challenge	www.kkn.net/stew
Mar. 12	AGCW QRP Contest	www.agcw.de/contest/qrp

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Mar. 12	FIRAC HF Contest	www.firac.de/html/contest.html
Mar. 12	UBA Spring Contest 2m CW/Phone	http://bit.ly/2KKAAtb9
Mar. 12-13	Wisconsin QSO Party	www.warac.org/wqp/wqp.htm
Mar. 15	VHF-UHF FT8 Activity	www.ft8activity.eu/index.php/en
Mar. 15	RSGB 80m Club Championship, CW	bit.ly/3TxCrxl
Mar. 18	AGCW VHF/UHF Contest	www.agcw.de/contest/vhf-uhf
Mar. 18	PODXS 070 Club St. Patrick's Day Contest	http://bit.ly/38ugUiF
Mar. 18-19	SARL VHF/UHF Analogue Contest	http://bit.ly/H0IqQf
Mar. 18-19	Virginia QSO Party	https://bit.ly/3IeqHvl
Mar. 18-20	BARTG HF RTTY Contest	http://bartg.org.uk/wp/contests
Mar. 19	UBA Spring Contest 80m SSB	http://bit.ly/2KKAAtb9
Mar. 20	Bucharest Digital Contest	https://yo3test201x.blogspot.com
Mar. 23	RSGB 80m Club Championship, SSB	bit.ly/3TxCrxl
Mar. 25	FOC QSO Party	www.g4foc.org/qsoparty
Mar. 25-26	CQWW WPX SSB Contest	www.cqwpw.com/
Mar. 26	UBA Spring Contest 6m CW/ Phone	http://bit.ly/2KKAAtb9
Mar. 27	RSGB FT4 Contest Series	bit.ly/3TxCrxl
Mar. 29	UKEICC 80m Contests CW	https://ukeicc.com/80m-rules.php

Check out the WA7BNM Contest Calendar page (<https://www.contestcalendar.com/>) and CQ Magazine for more contests or more details. I also have a comprehensive list that can be imported to your calendar at www.aj8b.com/files

Upcoming Ham Fests: (from the OSJ)

03/11/2023 - MOVARC Hamfest Location: Bidwell, OH 45614, OH Sponsor: Mid-Ohio Valley Amateur Radio Club Learn More	03/12/2023 - Winter Hamfest Location: Elyria, OH Sponsor: Northern Ohio Amateur Radio Society Website: http://winterhamfest@noars.net Learn More
03/19/2023 - Toledo Mobile Radio Association Hamfest Location: Perrysburg, OH Sponsor: Toledo Mobile Radio Association Website: http://www.tmrahamradio.org Learn More	04/15/2023 - Cuyahoga Falls Amateur Radio Club Hamfest Location: Cuyahoga Falls, OH Sponsor: Cuyahoga Falls Amateur Radio Club, Inc. Website: http://www.cfarc.org Learn More

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04/22/2023 - [Tusco Amateur Radio Club Hamfest, Electronics, and Computer Show](#)
Location: Dover, OH
Sponsor: Tusco Amateur Radio Club W8ZX
Website: <http://www.w8zx.net>
[Learn More](#)

04/30/2023 - [Athens Hamfest](#)
Location: Athens, OH
Sponsor: Athens County Amateur Radio Association
Website: <http://www.ac-ara.org/>
[Learn More](#)

05/07/2023 - [Lucas County Amateur Radio Emergency Service Trunk Sale and Swap Meet](#)
Location: Toledo, OH
Sponsor: Lucas County Amateur Radio EmergencyService
Website: <http://swap.lucasares.org>
[Learn More](#)

05/13/2023 - 05/17/2023 [RV Radio Network](#)
Location: Berlin, Ohio, OH
Type: ARRL Operating Specialty Convention
Sponsor: RV Radio Network
[Learn More](#)

Great Lakes Division Convention!!

05/19/2023 - 05/21/2023 [Dayton Hamvention](#)
Location: Xenia, OH
Sponsor: Dayton Amateur Radio Association
Website: <http://Hamvention.org>
[Learn More](#)

05/27/2023 - [Scioto Valley Amateur Radio Club Hamfest](#)
Location: Piketon, OH
Sponsor: Scioto Valley Amateur Radio Club
[Learn More](#)

06/03/2023 - [FCARC Summer Hamfest](#)
Location: Wauseon, OH
Sponsor: Fulton County Amateur Radio Club
Website: <https://k8bxq.org/hamfest>
[Learn More](#)

Ohio Section News:

NVIS Day 2023

Ohio NVIS Day 2023 will be held Saturday April 22, from 10AM until 4PM EDT.

The purpose of NVIS day is to construct and try various antenna ideas, all working as NVIS (Near Vertical Incident Sky wave) antennas. These antennas are low to the ground and provide coverage generally within a 400 mile radius- extremely important for regional HF communications in an emergency.

For 2023, we have added a couple operating scenarios that will make your day more fun and be a learning event for actual disaster communications. We propose a commercial power blackout, with the need to communicate within your ARES district and to W8SGT at the Ohio EOC in Columbus. Here's the deal:

1. The event runs from 10 AM until 4 PM local time.
2. Stations will construct and test NVIS antennas.
3. Transmit power is limited to 100 watts.
4. Power for the station will be any form of "off-grid" supply: typically, generator, battery or solar or whatever form you might have in an emergency setup. (Optional, but preferred)
5. Stations may test antenna coverage as in the past by contacting as many different locations as possible.
6. Stations may originate a message to their ARES District net and to W8SGT reporting their location.
 - a. This message may take any form: ARRL message form or any other can be used, doesn't matter. If you're going to use the traffic system, an ARRL message form is recommended.
 - b. The message should contain the call sign, operating location (include county) and number of operators. Any other brief antenna information is optional but appreciated!
 - c. Contact with the District net may take place on VHF or HF (Repeaters OK).
 - d. WinLink may also be used as long as it sent via RF, local node (VHF, UHF) or an HF node. For more information on node locations, visit WinLink.org.
7. Operating frequencies are proposed to be in the 80 and 40 meter bands. Voice is preferred for testing. Digital messages may be passed to OHDEN or Buckeye Net as available.
 - a. Optimum frequencies centered around but not limited to: 3.902 and 7.240
 - b. Digital OHDEN frequency: 3585 (typical is Olivia 8/500)
 - c. If additional exercise is desired, try 60 meters, Channel 5493.5 for voice and digital

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You can create your own log (Excel preferred) or use the attached format. Be sure to include a photo of your group or your antenna! Submit your results to contest@n8ara.org
Have fun! Take a lunch break! I hope to hear you!!

W8LT - A History of Amateur Radio at Ohio State University

W8LT is the call sign for the Amateur Radio and RF Club at The Ohio State University (OSU).

The university club has a long history, and archive records indicate that 1926 was the year it officially became a club, likely making it the oldest one on campus. W8LT is just 3 years shy of celebrating its 100th anniversary.

In the early 1920s, the call sign started out as 8LT, until the Radio Act of 1927 added a "W" to all radio call signs. Then, W8LT had been closely associated with WOSU Radio, the university's non-commercial station, which began as WEAO in June of 1922. The two stations were believed to have shared a small building near campus until the mid-1950s.

In 1957, both stations were moved to small military-style Quonset huts. From July 1961 to January 1963, the club was unable to find a location anywhere on campus, so all of their equipment was put into storage in club member Bill Hale's, K8JIX, basement and brought out only for ARRL Field Day each June.

Eventually, W8LT found a new home in the bell tower at Ohio Stadium, a room directly below where the bell rings after every home-game win. That location allowed a 500-foot-long wire antenna to be stretched from the tower to a nearby smokestack at OSU's power station. The result was a very powerful signal that could be heard clearly on stations around the world.

When Ohio Stadium was renovated, W8LT moved again, this time to Bevis Hall, where it remains today near the location of the old military - style Quonset huts.

Today, the club continues to grow with 15 active members, including students, staff, and alumni.

Faculty Advisor Larry Feth, K8HTC, said that the club takes every opportunity to recruit new members and offer license testing sessions.

More information is available on the [W8LT](#) website and on their [Facebook](#) page.

W8LT is an ARRL Affiliated Club and participates in the ARRL [Collegiate Amateur Radio Program](#).

ARRL News:

□ 02/24/2023 | [W8LT - A History of Amateur Radio at Ohio State University](#)



W8LT is the call sign for the Amateur Radio and RF Club at The Ohio State University (OSU). [Read More](#)

□ 02/24/2023 | [The K7RA Solar Update](#)



Solar activity plunged this reporting week, although there was great the excitement when the solar flux on February 17 was reported as a record breaking 343.1. [Read More](#)

□ 02/12/2023 | [Amateur Radio Events Celebrate the Universe](#)



Two amateur radio events are scheduled in mid-February to celebrate an astronomer who mapped the universe and an astronomer who discovered a planet. [Read More](#)

Ham Radio Trivia Quiz

What was the purpose of a CONELRAD Monitor?

- A: Keep an ear out for intruders in the Ham bands
- B: Monitor local AM broadcast transmissions
- C: Insure purity of emissions
- D: Keep an eye on transmitter temperature

An early experimenter's transistor was the:

- A: CK722
- B: BNC44A
- C: 6DQ5
- D: BC221

In terms of radio propagation, what does the term 'MUF' mean?

- A: Multiple usage frequencies
- B: Maximum usable frequency
- C: Minimum usable frequency
- D: Mean usable frequency

What is the total capacitance of 3 1 pF capacitors in series?

- A: 3 pF
- B: .33 pF
- C: 33 pF
- D: 3.3 pF

Answers on page 25



HAM EXAMS in 2023

Held At

KIRTLAND PUBLIC LIBRARY

The Lake County Amateur Radio Association is once again holding its Amateur Radio license exams at the **Kirtland Library**, 9267 Chillicothe Road, on the following dates:

Saturday, April 1 Saturday, June 3
Saturday, August 5
Saturday, October 7 Saturday, December 2

This bi-monthly schedule is the first Saturday of every even-numbered month (e.g., February being the second month, etc.). They are held at the Kirtland Library, 9267 Chillicothe Road. It is 1.7 miles south of I-90 on Route 306 (Chillicothe Rd). The library is on the left, just beyond the Marathon gas station.

The tests will start at **12 noon**. Please arrive a few minutes earlier.

To register, you will need a NCVEC 605 Form, which will be available at the test. If you would like to complete one ahead of time, be sure it is the Sept 2017 version or later. You can find it by Googling “NCVEC quick-form 605” and clicking on the url for a pdf of the form. Please note **the FCC requires you to provide a FRN** (FCC Registration Number). Social Security Numbers are no longer accepted. If you are new to ham radio and don’t have a FRN, Google “New FRN” and follow the fcc.gov link.

If you are currently licensed, be sure to **bring a copy of your license to the exam**. The cost of the exam itself is \$15.00, and if you wish to pay by check, it should be made out to the ARRL/VEC. Identification with your picture is also necessary, such as a driver’s license. If you have any questions, please contact Scott Farnham, KO8O, at (440) 256-0320, or scottfarnham@roadrunner.com

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In addition to the \$15 test fee, the FCC now charges \$35 to add you to the Amateur Radio database. The FCC will e-mail successful candidates instructions for payment directly to them. Payment must be made within 10 days of the e-mail. This charge does not apply to upgrades.



LICENSE RENEWAL

Doing our VE Tests, I often am asked how to renew one's license. It's been five years since I checked, so it seems time to check how much the process has changed. The answer is not much ... it can be simple and free (there's no FCC fee, which only applies to new licenses), or cost \$8, or be a real PITA. Here's what I found:

This applies to renewals, address changes, and any other modifications to your license information, as well as printing a duplicate license. Renewals can only be made within 90 days of expiration. If you're a little late, don't sweat it, as there's a two year grace period.

There are several ways you can go about renewing or changing your license information:

1. If you're an ARRL member (you are, aren't you ... it is the best deal in amateur radio, and they need your support to defend our frequencies), fill out the NCVEC Form 605, available in pdf from several sources if you Google "NCVEC Form 605". Then mail it with a note as to whether it's a renewal/change/duplicate request to ARRL/VEC at 225 Main St, Newington CT 06111. It's free. If you do this, make sure your Form 605 is the Sept 2017 version or later.
2. If you're not an ARRL member, you can do the same thing, but enclose a \$15 check payable to ARRL/VEC with the form.
3. You can have W5YI do it for you at www.w5yi.org Click on "License Renewals" along the left side of the screen and follow the instructions. This costs \$8. Or mail a completed NCVEC Form 605 and \$8 to them at W5YI-VEC, PO Box 200065, Arlington, TX 76006-0065
4. You can do it yourself directly with the FCC. Google "FCC ULS" Click on "UNIVERSAL LICENSING SYSTGEM" then click "FILE ONLINE" which takes you to the FCC License Manager page and follow the instructions. If you have been assigned a FRN this is easy. The considerable majority of existing amateurs have been assigned a FRN, and it is shown on your current license. Check your license using "License Search" at the "FCC ULS Home" page above.
5. If you really don't have a FRN number, on the FCC License Manager in 4 above, click on "Register with the FCC" and follow the instructions. Be sure to link your new FRN with your existing license. After receiving a

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FRN You can go back to the ULS Home Page and click on ONLINE FILING to request an update/renewal to your license. Note that many older licenses have had FRN's automatically assigned.

6. If you're not an ARRL member, hate the internet, and too cheap to pay \$8, you can fill out a paper copy of FCC Form 605 and send it directly to the FCC. Note this **FCC** Form 605 is entirely different from the **NCVEC** Form 605 mentioned in method 1 above. You can request this form from the FCC Forms Distribution Center at 1-800-418-3676, or download it at www.fcc.gov/fcc-form-605. This method is only recommended for masochists, as the **FCC** Form 605 is a typical government form, being both long and far from intuitively obvious.

Regardless of which method you choose, your renewed license will show up in the FCC's database shortly. If the US Postal Service is not involved, it may be as quickly as one or two days. The FCC no longer mails licenses, you will have to print it out from the FCC ULS site.

Scott
KO8O



3rd Tuesday Breakfast Group 2021



Mark your calendars!

The next meeting of the Tuesday Morning Breakfast Group is **March 21st**, at the Perkins Family Restaurant, located at 700 Mentor Avenue in Painesville. Attendees begin to gather around 8:00am Breakfast orders being taken around 8:30am. This group averages 15-20 people from all around the area. Club membership is not a requirement to attend. Meet other Hams, talk over the news of the day and maybe find a buyer for your spare equipment. Bring your significant other, or a friend, to breakfast. Good food and conversation await.



LCARA Board Meeting

Board Meeting



The LCARA Board currently meets virtually. We will resume in person meetings as soon as it is deemed safe to do so.

Board meetings are usually held at the Tri-Point Medical Center - Physicians Pavilion, lower level in Rm.1002, every 2nd Wednesday.

To find Rm. 1002 using the pavilion entrance, simply continue down the hallway into the hospital and past the food court. You may also enter via the hospital main entrance and take the elevator to the ground floor. The room is located just to the right of the main elevators. **All members are welcome.**

Our Weekly Nets

Lake County ARES Net

The ARES Net is held **weekly on Mondays at 7:30 pm on 147.210/R (b/u 147.255/R)**. This directed net is open to all licensed amateur radio operators. You do not need to belong to ARES to participate. This net is provided for operators to verify the proper operation of their stations equipment and capabilities, should they be called upon in the event of an emergency. Volunteer to be Net Control or Alternate Net Control. Prior experience is not necessary. Training will be provided. Everyone is welcome.

2 Meter Net

The 2 Meter Net runs **weekly on Thursdays at 7:00 pm on 147.210/R**. This is an informal net. Participant discussions vary on a range of subjects for the good of the group. It's a great time to ask questions, especially for new operators. List your items related to ham radio that you want to sell or swap and mention any sunshine reports you have to share. We also present the latest weekly edition of the ARRL Audio News. We are always looking for alternate net control operators.

10 Meter Roundtable

The 10 meter Roundtable meets **weekly on Wednesdays at 8:30 pm on 28.450 MHz +/-**. This is an informal roundtable where the group chats about anything that comes to mind and rag chew about any topic or events of the day. You don't need to be a LCARA member, just have at least a Technician license and some 10 meter gear. It's an opportunity to re-connect with friends or make some new ones. Anyone can start it off so don't be shy.

Other Weekly Nets

Monday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

20:00 – Geauga Emergency Amateur Radio Service Training Net – (check in on 146.940/R - then moves to 147.435/s)

Tuesday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

19:15 – Ohio HF Emergency Preparedness Net - 3.910 MHz (+/-) or 7.240 (+/-)

19:30 – Swap-N-Shop – 147.015 (pl 110.9)

19:45 – Ohio Digital Emergency Net - 3.584.5 (USB) - 1500 Hz data carrier offset – Olivia 8-500

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21:00 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Wednesday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

20:00 – Quarter Century Wireless Association Net – 147.015 (pl 110.9)

Thursday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

19:30 – Ohio ARES Dist.10 DMR Net – TG 31395

20:00 – Ashtabula Radio Club 2 Meter Net – 146.715 (pl 141.3) – (Echo link node- N8CT/L)

20:00– Lake Erie ARA 2 Meter Net – 146.760 (pl 110.9) – (back/up 146.880 – pl 110.9)

20:00 – Portage County Amateur Radio Society 2 Meter Net – 146.895 (pl 118.8 – Streetsboro input) (Echo link: K8BF-L node #508081)

Friday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

21:00 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Saturday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

14:00 -. Swan Tech Net – 7.235 MHz

15:30 – Kenwood Hybrid Tech Net – 7.235 MHz

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

Sunday

08:00 – DX 60 Net – 3.880 MHz – **AM mode**

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09:00 - Trivia Net – 146.940 (pl 110.9)
10:30 – 16:45 – 18:45 – OSSB Net – 3.9725
16:00 – Drake Tech Net – 7.238 MHz
18:00 – Ohio (slow) – 3.53535
18:45 – Buckeye (early) – 3.580
21:00 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Sell, Seek or Trade

Brad Williams, K8ZM K8zm@arrl.net Cell: (440) 479-4588

For Sale:

Hy-gain TH5-MKII 5-element (10/15/20m) Tri-band Beam Antenna, asking \$500. Original owner, very good condition, stored in attic, includes all documentation.

Wanted:

US Tower MA-550 Tubular 55' Crank-Up Tower in good condition, also accessories MAF-550 Raising Fixture and MARB-550 Freestanding Rotor Base.

Bill Wihebrink < 440-943-1703 >

For Sale:

- 1) Icom 275H 100 watt all mode 2 meter transceiver
- 2) Yaesu FT 817ND

Joseph Koskovics < n8jko@outlook.com >

For Sale:

Flight Case: \$60.00
The case is a Stellar Labs flight case, from the former MCM Electronics. It is a 4 rack space unit that has a 7 in high opening with rack rails. The case is 15 in deep and accommodates standard rack shelves. The unit has seen no real use and is in mint condition and includes one rack shelf. Price is \$60. Please contact by email.

Cal Pengov < cpengov@att.net >

For Sale:

Mosely TA36
Six element beam with rotor and manual \$250.00

Collins 30L-1
HF Linear Amplifier with high output tubes with manual \$800.00



Since 1978

March 2023

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
			1 LCARA Meeting 7:30pm	2 2 Mtr. Net 7:00pm	3	4
5	6 LC ARES Net 7:30pm	7	8 LCARA Board Mtg. 7:30pm 10 Mtr. Net 8:30pm	9 2 Mtr. Net 7:00pm	10	11
12 NOARS Fest Daylight Saving Time Starts	13 LC ARES Net 7:30pm	14	15 10 Mtr. Net 8:30pm	16 2 Mtr. Net 7:00pm	17 St. Patrick's Day	18 Toledo Hamfest
19 Severe Weather Awareness Week	20 LC ARES Net 7:30pm	21 3 RD Tuesday Breakfast	22 10 Mtr. Net 8:30pm Statewide Tornado Drill	23 2 Mtr. Net 7:00pm	24	25
26	27 LC ARES Mtg. 7:30pm	28	29 10 Mtr. Net 8:30pm	30 2 Mtr. Net 7:00pm	31	

QRZ Ham Radio Trivia Quiz Answers

What was the purpose of a CONELRAD Monitor?

- A: Keep an ear out for intruders in the Ham bands
- B: Monitor local AM broadcast transmissions (Correct)
- C: Insure purity of emissions
- D: Keep an eye on transmitter temperature

An early experimenter's transistor was the:

- A: CK722 (Correct)
- B: BNC44A
- C: 6DQ5
- D: BC221

In terms of radio propagation, what does the term 'MUF' mean?

- A: Multiple usage frequencies
- B: Maximum usable frequency (Correct)
- C: Minimum usable frequency
- D: Mean usable frequency

What is the total capacitance of 3 1 pF capacitors in series?

- A: 3 pF
- B: .33 pF (Correct)
- C: 33 pF
- D: 3.3 pF

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Amateurs Code

By Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

CONSIDERATE..... Never knowingly operate in such a way as to lessen the pleasure of others.

LOYAL..... Offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE..... With knowledge abreast of science, a well built and efficient station and operation beyond reproach.

FRIENDLY..... With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED..... Radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC..... With station and skill always ready for service to country and community.

LCARA was organized for the purpose of furthering Amateur Radio by increasing the technical knowledge and operating proficiency of radio amateurs through continuing education, public service and acting as a vehicle of communication by, between and with the members of the association. LCARA is an incorporated association chartered under the laws of the State of Ohio and is an exempt organization under section 501(c)(3) of the Internal Revenue Code. Contributions to LCARA are fully deductible from Federal Income Tax. Regular and Senior Dues are \$20.00 per year, Family (household) \$30.00, Students \$10.00. Items may be reprinted by other non-profit publications without prior permission providing credit is given to the original source and The LCARA Patch. Articles from members are welcome.

The Lake County Amateur Radio Association

*P.O. Box 868
Painesville, OH 44077-0868*

Proudly serving Lake County & NE Ohio since 1978

To contact us, send an e-mail to: <https://www.lcara.org/contact-us/>

Voice Repeaters N8BC

*147.210 +.600 MHz -PL tone of 110.9 Hz
Echo link N9IJG/R Node #665499
224.500 - 1.6MHz -PL tone of 141.3 Hz.
444.650 + 5.0MHz -PL tone of 131.8 Hz.*